

02174250 COW CASTLE CREEK NEAR BOWMAN, SC

LOCATION.--Lat 33°22'43", long 80°42'00", Orangeburg County, Hydrologic Unit 03050206, at bridge on county road, 1.1 mi, upstream from Buck Branch, and 3.2 mi northwest of Bowman.

DRAINAGE AREA.--23.4 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1971 to September 1981, October 1995 to current year.

GAGE.--Data collection platform. Elevation of gage is 125 ft above sea level (from topographic map). Prior to February 1988, gage at same site, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	.86	2.3	4.4	29	8.6	11	149	3.2	2.8	.78	.79
2	1.6	.81	2.2	4.3	83	8.2	12	99	2.9	2.4	.69	.67
3	1.6	.87	2.2	17	50	8.5	10	56	3.3	2.2	.58	.58
4	1.6	1.1	2.2	12	38	7.8	8.8	38	3.1	2.1	.52	.49
5	1.7	1.2	2.2	8.2	31	7.4	8.0	29	2.6	1.8	.47	.42
6	1.6	1.2	2.2	6.9	26	7.3	7.3	26	2.4	1.6	.52	.36
7	1.8	1.0	2.1	6.3	23	7.0	7.1	24	2.3	1.8	.52	.33
8	2.9	1.1	1.8	5.8	20	6.7	6.6	20	2.2	4.4	.42	.91
9	3.0	1.3	1.8	5.5	18	7.8	6.4	16	2.1	2.5	.39	.93
10	2.3	1.4	2.0	5.1	16	8.4	5.9	13	2.0	1.9	.43	.75
11	1.9	1.4	1.9	4.8	15	7.8	5.4	12	2.0	2.4	.37	.60
12	1.7	1.3	2.0	4.7	14	7.2	4.9	11	1.9	9.6	.32	.80
13	1.7	1.3	2.3	4.8	13	7.0	4.3	11	1.8	5.7	.31	.76
14	2.7	1.8	2.2	4.3	12	11	4.1	10	1.8	4.7	1.2	.88
15	2.0	2.2	2.5	9.3	e12	16	4.9	8.9	1.8	3.9	1.2	4.7
16	1.5	2.4	3.3	9.6	e12	11	6.6	8.1	2.1	3.4	.81	13
17	1.7	2.5	2.5	8.0	e12	10	4.8	7.6	4.1	9.0	1.1	6.2
18	1.8	2.2	2.3	12	e12	9.2	4.3	7.0	3.5	4.9	.79	3.8
19	1.4	2.1	2.3	12	e12	8.4	4.0	7.7	2.4	3.5	1.0	3.0
20	1.2	1.9	2.2	9.8	e11	7.8	3.9	7.5	2.1	3.2	43	3.0
21	1.0	2.0	1.9	8.7	e11	8.8	3.6	6.2	2.0	2.8	9.9	2.9
22	.96	2.2	1.9	7.9	e11	9.3	3.5	5.9	1.9	2.3	4.8	2.3
23	1.9	2.3	1.9	11	e10	8.2	3.3	6.0	1.7	2.2	3.3	2.0
24	1.1	2.4	2.0	112	9.2	7.7	3.1	6.4	1.5	2.0	3.0	2.0
25	.97	2.4	3.0	60	9.0	8.4	3.1	5.6	1.9	1.8	4.7	1.9
26	.93	2.3	4.7	37	8.7	14	3.0	4.5	2.3	1.8	3.3	2.3
27	.98	1.9	7.0	28	8.4	13	4.0	4.3	3.2	1.5	2.1	7.9
28	.97	2.0	5.1	23	8.6	11	6.3	4.0	6.6	1.7	1.6	12
29	.90	2.7	9.4	20	---	9.8	5.1	3.7	4.5	1.2	1.4	10
30	.88	2.4	7.1	17	---	8.8	47	3.5	3.3	1.0	1.1	9.8
31	.84	--	4.9	16	---	8.6	---	3.4	--	.90	.88	--
TOTAL	49.03	52.54	93.4	495.4	534.9	280.7	212.3	614.3	78.5	93.00	91.50	96.07
MEAN	1.58	1.75	3.01	16.0	19.1	9.05	7.08	19.8	2.62	3.00	2.95	3.20
MAX	3.0	2.7	9.4	112	83	16	47	149	6.6	9.6	43	13
MIN	.84	.81	1.8	4.3	8.4	6.7	3.0	3.4	1.5	.90	.31	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1999, BY WATER YEAR (WY)

MEAN	5.44	8.19	20.8	38.3	52.0	44.5	23.7	17.9	14.6	13.9	9.34	8.86
MAX	25.0	31.3	81.9	114	145	113	63.6	56.1	67.6	40.3	53.0	67.3
(WY)	1996	1996	1998	1998	1973	1980	1973	1998	1973	1976	1971	1979
MIN	.87	1.14	2.20	3.43	8.49	6.77	2.83	2.36	2.41	.89	1.39	.51
(WY)	1979	1979	1981	1981	1981	1981	1981	1981	1977	1977	1996	1996

SUMMARY STATISTICS	02174250 COW CASTLE CREEK NEAR BOWMAN, SC--Continued FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1971 - 1999
ANNUAL TOTAL	14417.53	2691.64	
ANNUAL MEAN	39.5	7.37	21.3
HIGHEST ANNUAL MEAN			48.0
LOWEST ANNUAL MEAN			5.94
HIGHEST DAILY MEAN	496 Feb 4	149 May 1	625 Feb 15 1973
LOWEST DAILY MEAN	.59 Aug 8	.31 Aug 13	.21 Sep 24 1996
ANNUAL SEVEN-DAY MINIMUM	.73 Aug 2	.39 Aug 7	.25 Sep 23 1996
INSTANTANEOUS PEAK FLOW		179 May 1	2340 Sep 4 1979
INSTANTANEOUS PEAK STAGE		4.84 May 1	7.37 Sep 4 1979
10 PERCENT EXCEEDS	112	13	50
50 PERCENT EXCEEDS	4.9	3.3	8.0
90 PERCENT EXCEEDS	1.1	.92	1.7

e Estimated

